

Title (en)

HYBRID HEPATOCYTE GROWTH FACTOR GENE HAVING HIGH EXPRESSION EFFICIENCY OF TWO HETEROGENES OF HEPATOCYTE GROWTH FACTOR

Title (de)

HYBRID-HEPATOZYTEN-WACHSTUMSFÄKTOGEN MIT HOHER EXPRESSIONSEFFIZIENZ VON ZWEI HEPATOZYTEN-WACHSTUMSFÄKTOREN-HETEROGENEN

Title (fr)

GENE DE FACTEUR DE CROISSANCE HEPATOCYTAIRE HYBRIDE A EFFICACITE D'EXPRESSION ELEVEE DE DEUX HETEROGENES DU FACTEUR DE CROISSANCE HEPATOCYTAIRE

Publication

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Application

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Priority

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Abstract (en)

[origin: USRE48404E] The present invention relates to a hybrid Hepatocyte Growth Factor (HGF) gene which is prepared by inserting an inherent or foreign intron between exons 4 and 5 in HGF cDNA, which has a base sequence of SEQ ID NO: 2. The gene has high expression efficiency and simultaneously expresses two heterotypes of HGF and dHGF (deleted variant HGF). Further the gene may be used for treating or preventing ischemic or liver diseases.

IPC 1-7

C12N 15/12

IPC 8 full level

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CPC (source: EP KR US)

A61P 1/16 (2018.01 - EP); **A61P 9/10** (2018.01 - EP); **C07K 14/4753** (2013.01 - EP US); **C12N 15/11** (2013.01 - KR)

Citation (search report)

- [A] SEKI T ET AL: "ORGANIZATION OF THE HUMAN HEPATOCYTE GROWTH FACTOR-ENCODING GENE", GENE (AMSTERDAM), vol. 102, no. 2, 1991, pages 213 - 219, XP002370401, ISSN: 0378-1119
- [A] LIU YUHUA: "The human hepatocyte growth factor receptor gene: Complete structural organization and promoter characterization", GENE (AMSTERDAM), vol. 215, no. 1, 17 July 1998 (1998-07-17), pages 159 - 169, XP002370402, ISSN: 0378-1119

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